

# SONY

3-754-700

## TRINITRON® COLOR TV

# KV-8AD12

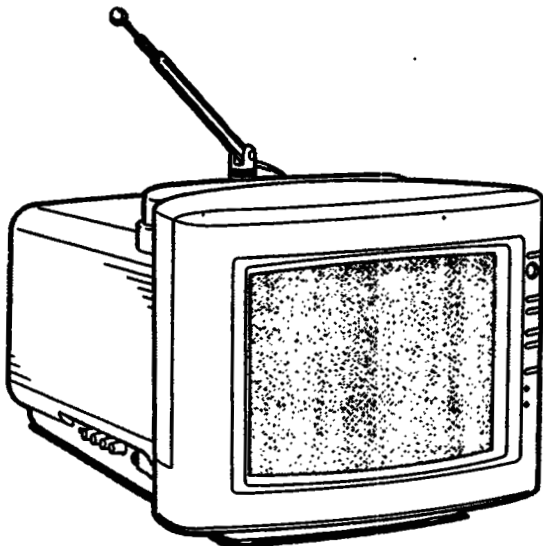
## Operating Instructions

Before operating your TV, please read this manual thoroughly and retain it for future reference.

## Owner's Record

The serial number is located at the rear of the TV. Record it in the space provided below. Refer to the model and serial numbers whenever you call upon your Sony dealer regarding this product.

Model No. KV-8AD12    Serial No. \_\_\_\_\_



# WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK).  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

**TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**

## Note to CATV system installer in the U.S.A.:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

# Precautions

## Safety

- Operate the TV only on 120 V AC or on 12/24 V DC.
- To operate from a car battery, use only the supplied car battery cord.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.
- Unplug the TV from the wall outlet or unplug the car battery cord if you are not going to use it for several days or more.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.

## Installation

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust.
- To reduce the risk of fire, do not place any heating or cooking appliance beneath the TV.

## Cleaning

Clean the TV with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the cabinet.

## Repacking

Retain the original carton and packing materials for safe transport of your TV in the future.

## Caution

- The shelf installation bracket is designed exclusively for use in installing the TV to a kitchen or other household shelf or cabinet. It is not intended to be used to install the TV in a car or other vehicle.
- When using the shelf installation bracket, follow the instruction (pp.8 – 17) in the exact order given. If you do not, the TV may fall from the bracket.

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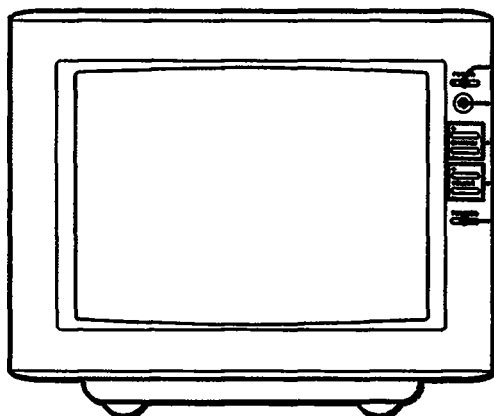
# Features

- 8-inch remote-controlled Trinitron TV.
- Easy and precise channel selection with automatic tuning system.
- On-screen display of channel numbers and volume level.
- Sleep timer, which automatically turns the TV off after 30/60/90 minutes.
- Seek feature, to search for receivable channels automatically.
- Detachable brackets, to attach the TV to a kitchen shelf or cabinet.

# Identifying the Parts



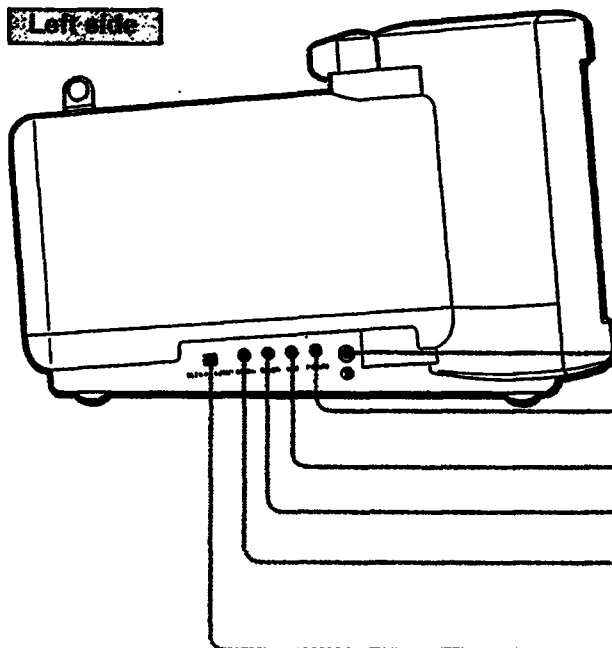
For details, refer to the pages indicated by the numbered black circles ●.



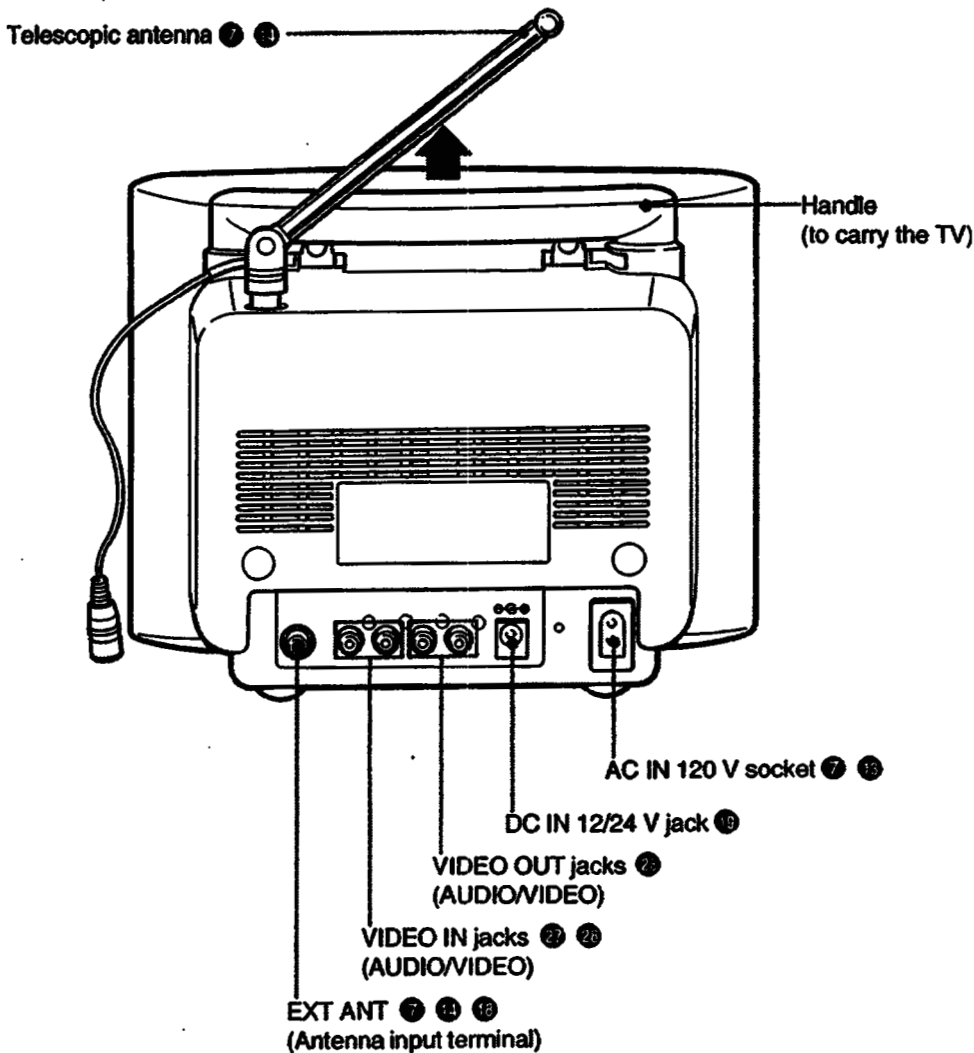
- POWER button\* ● 16 ● 23
- Remote detector
- CHANNEL +/- buttons\* ● 17 ● 18
- VOLUME +/- buttons\* ● 20 ● 21
- TV/VIDEO buttons\* ● 24 ● 25 ● 26

\* The same function buttons are also located on the Remote Commander (p. 6).

Left side

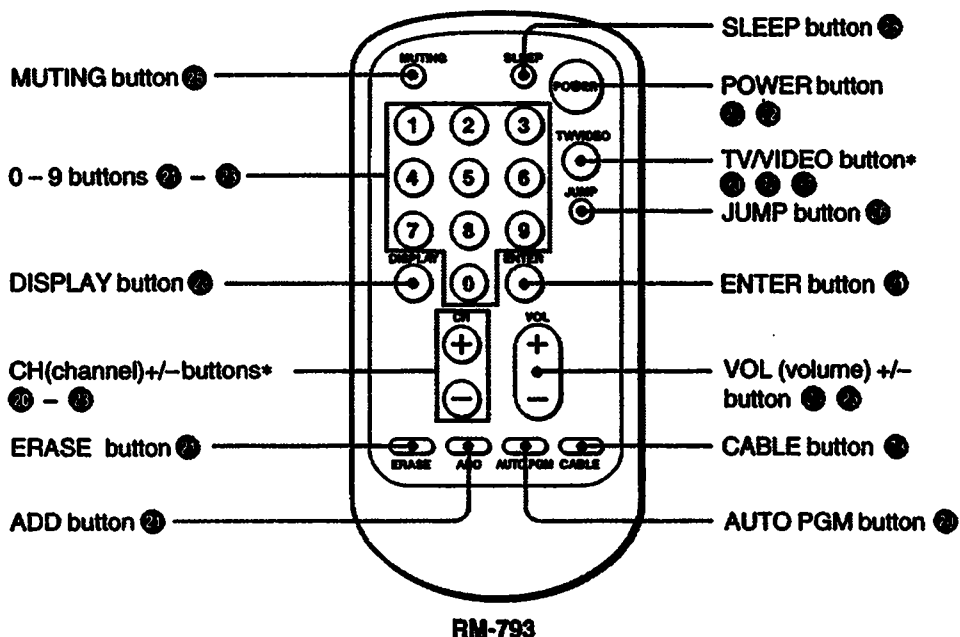


- Earphone jack ● 26
- PICTURE control ● 27
- HUE control ● 28
- COLOR control ● 29
- BRIGHT(brightness) control ● 30
- SEEK/DIRECT selector ● 21 ● 22



# Identifying the Parts

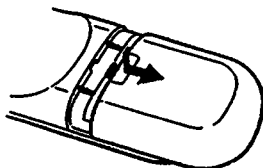
## Remote commander



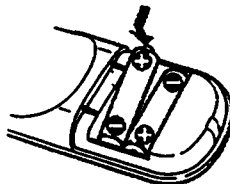
\*The same function buttons are also located on the TV (p. 4).

## Installing batteries

**1** Remove the battery compartment cover.



**2** Insert two size AA (R6) batteries in correct polarity; then replace the lid.

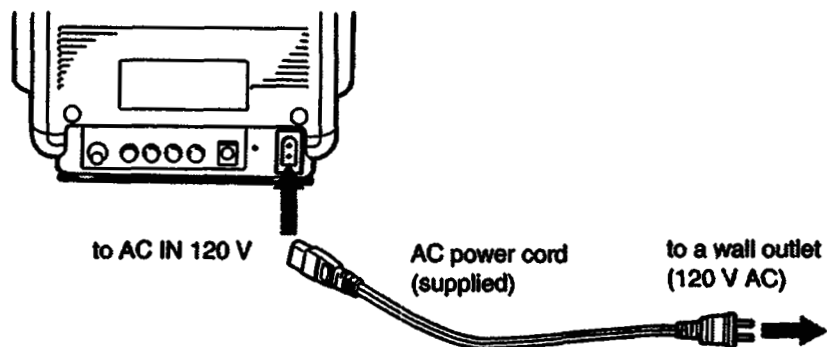


### Notes

- In normal operation, batteries will last up to half a year. If the TV does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Remote Commander and the TV.
- Operable range is limited.
- If a Remote Commander not recommended is used to operate this TV, or if the supplied Remote Commander is used to operate another TV, the TV may not operate properly.

# Preparing for Use

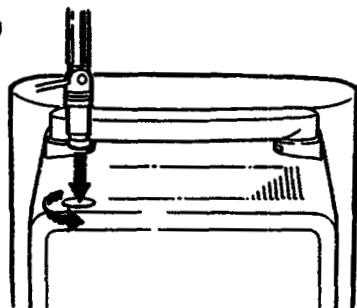
(Rear of TV)



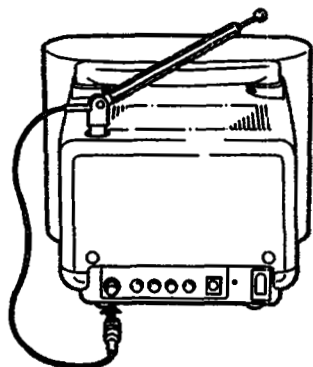
Preparing for supplying telescopic antenna (Rear of TV)

- 1 Insert the antenna into the receptacle on the TV, and twist to ensure a secure fit.

(Rear of TV)



- 2 Attach the antenna connector to the EXT ANT terminal.




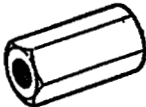



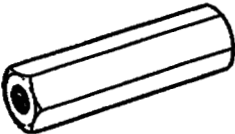


# Preparing for Use

## Attaching the TV to a kitchen cabinet

To install the TV to a kitchen cabinet, attach the supplied shelf installation bracket using the attachment parts shown below. The bracket attachment instructions differ depending on the cabinet type (flush or overhanging, thickness of cabinet base). Follow the instructions that match your cabinet type.

### Attachment parts (supplied)

| Flush and overhanging types  | Overhanging type only   |
|--|---|
| <div><b>A</b></div> <div></div> <div>M6 x 25 Phillips screws (4)</div>                    | <div><b>E</b></div> <div></div> <div>Metal washers (4)</div>     |
| <div><b>B</b></div> <div></div> <div>M6 x 30 Phillips screws (4)</div>                    | <div><b>F</b></div> <div></div> <div>Spacers [L=27] (4)</div>    |
| <div><b>C</b></div> <div></div> <div>Resin washers (4)</div>                              | <div><b>G</b></div> <div></div> <div>M6 x 12 hex bolts (4)</div> |
| <div><b>D</b></div> <div>Flush type only</div> <div></div> <div>M6 nuts [L=5] (4)</div> | <div><b>H</b></div> <div></div> <div>Spacers [L=52] (4)</div> |

Lay the supplied paper pattern on the base of the cabinet (inside or outside), to ensure the proper 135 mm (5½ inches) distance between the wall and the bracket. Drill 4 holes where indicated on the pattern. Attach the shelf installation bracket with the 4 nuts and bolts (supplied) as shown on the following pages.

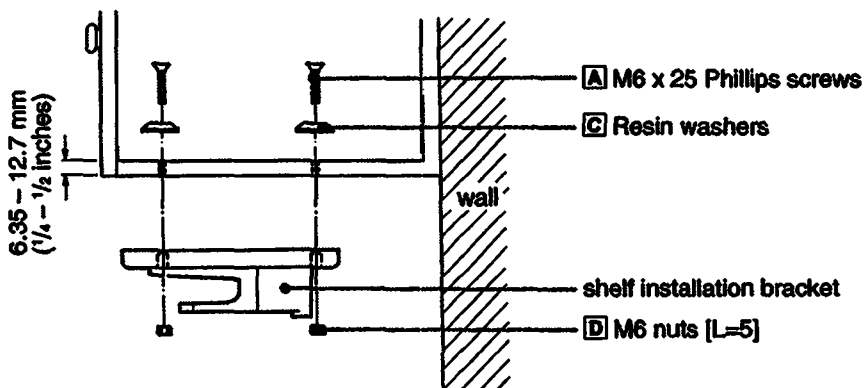




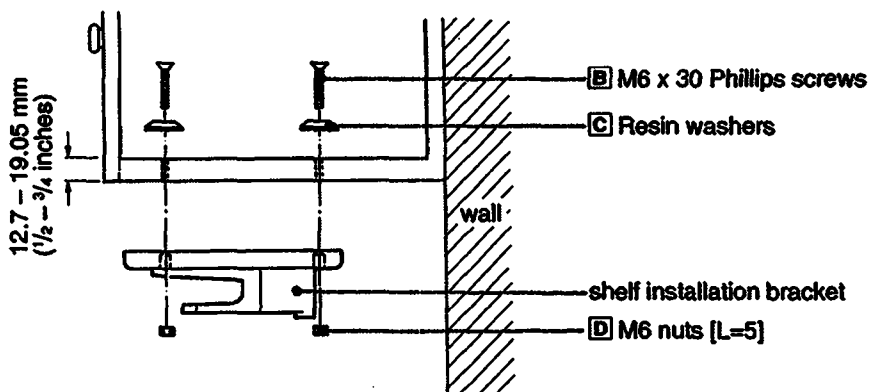
### Caution

When using the shelf installation bracket to attach the TV to a kitchen shelf or cabinet, be sure that the bracket is attached level to the shelf or cabinet base. If the TV is installed to a bracket that is not level, it may fall from the bracket.

When the cabinet base thickness is 6.35-12.7 mm ( $\frac{1}{4}$  -  $\frac{1}{2}$  inches)



When the cabinet base thickness is 12.7-19.05 mm ( $\frac{1}{2}$  -  $\frac{3}{4}$  inches)

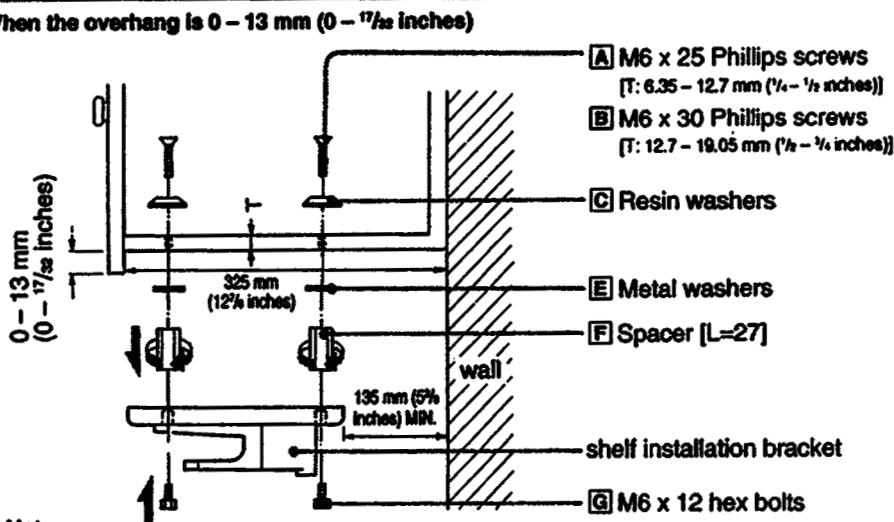


### Notes

- You cannot attach the shelf installation bracket to a cabinet with a base thickness of less than 6.35 mm ( $\frac{1}{4}$  inches).
- If the cabinet base thickness is over 19.05 mm ( $\frac{3}{4}$  inches), purchase longer length screws (#10-32) and nuts at a hardware supply store.

# Preparing for Use

## When the overhang is 0 – 13 mm (0 – 17/32 inches)



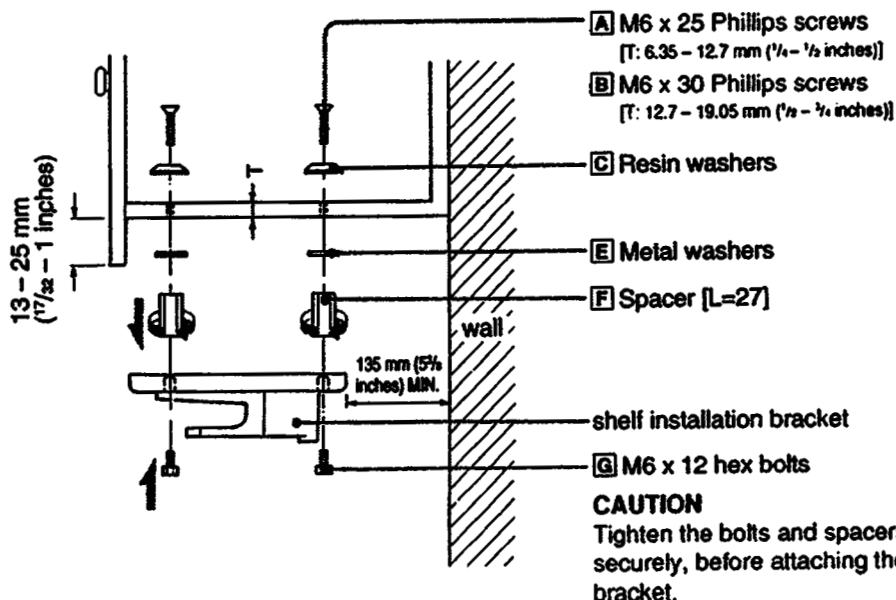
### Note

When the cabinet base depth is over 325 mm (12 7/8 inches) the spacers and metal washers are not necessary. In this case, use the M6 nuts [L=5] (**D**, p.8) instead of the M6 x 12 hex bolts (**G**).

### CAUTION

Tighten the bolts and spacers securely, before attaching the bracket.

## When the overhang is 13 – 25 mm (17/32 – 1 inches)

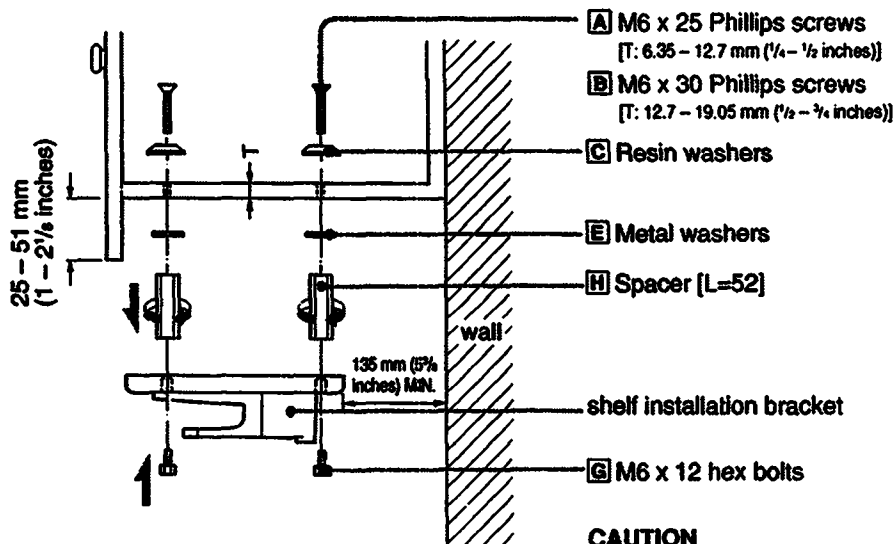


### CAUTION

Tighten the bolts and spacers securely, before attaching the bracket.



When the overhang is 25 – 51 mm (1 – 2 1/8 inches)



### CAUTION

Tighten the bolts and spacers securely, before attaching the bracket.

### Note

You cannot attach the shelf installation bracket to a cabinet with an overhang of over 51 mm (2 1/8 inches).

### Caution

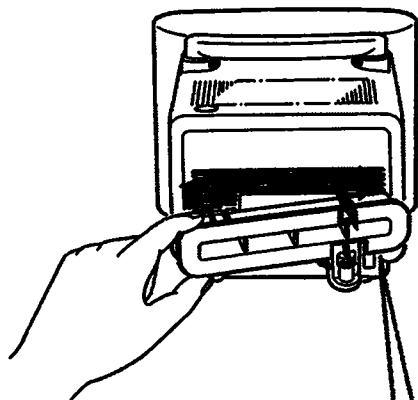
To reduce the risk of fire, do not place any heating or cooking appliance beneath TV.

# Preparing for Use

You can install the TV to the shelf installation bracket, as shown below.

## Installing the TV to the shelf installation bracket

- 1** Before installing the TV, first attach the cord bracket as shown below. The cord bracket is used to store excess length of power cord. Holding the cord bracket as shown, push the right side so that the bracket tabs enter the proper air vent openings on the right rear of the TV; then slide the bracket to the right. Next, push the left side of the bracket so that the left-side tabs enter the air vent openings on the left.

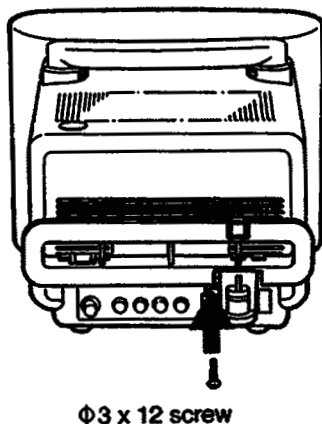


It is important that you push the right-side bracket tabs into the correct openings or the bracket will not attach properly.

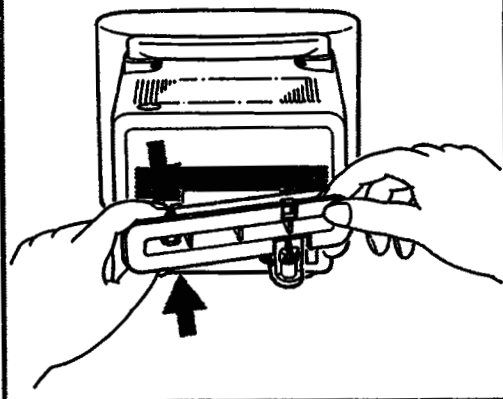


- 2** Attach the screw (supplied) to secure the cord bracket to the TV.

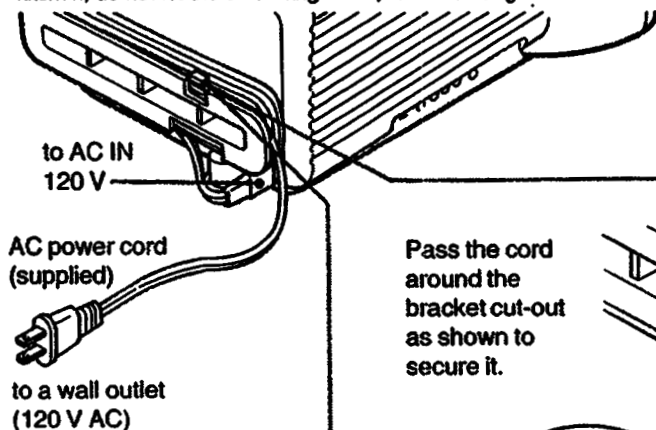
(Rear of TV)



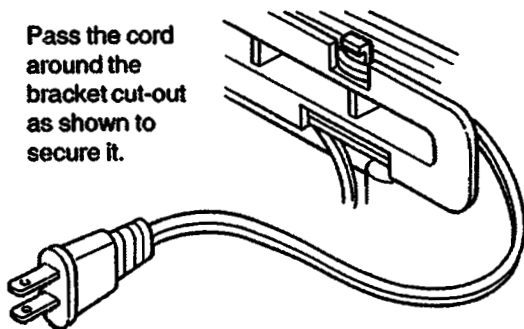
To remove the cord bracket, first remove the screw. Next, squeeze the two tabs (top and bottom) on the left side of the bracket to release them from the openings. Finally, slide the right side of the bracket to the left; then pull to remove the bracket from the TV.



- 3** Wrap any excess length of power cord around the cord bracket. When using the TV in a kitchen, do not let the cord hang loose, to avoid dangerous contact with heat and fire.



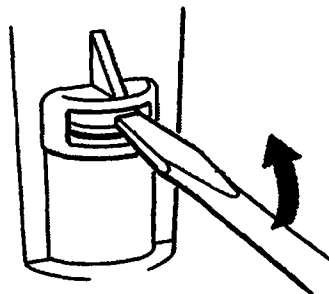
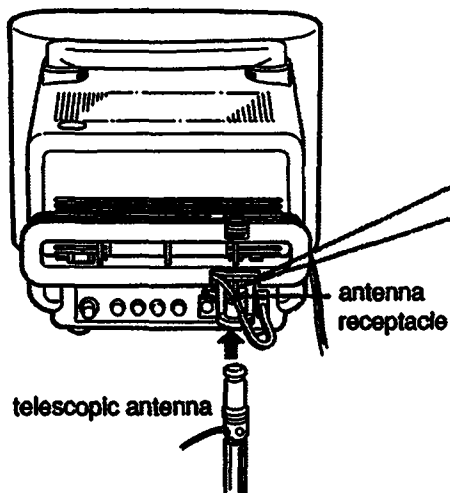
Pass the cord around the bracket cut-out as shown to secure it.



## Preparing for Use

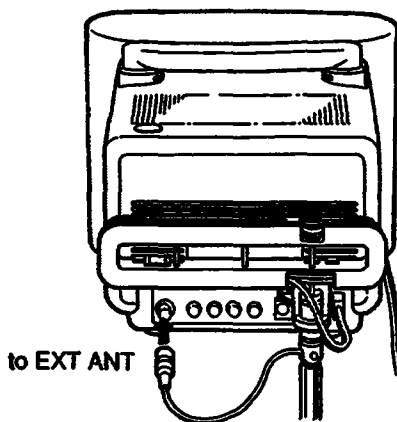
- 4** Connect the supplied telescopic antenna by inserting the antenna base into the bottom of the receptacle on the cord bracket. Twist to ensure a secure fit.

(Rear of TV)



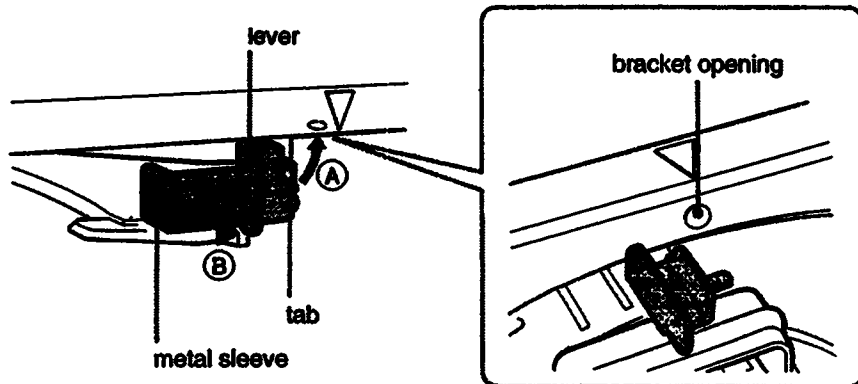
To remove the antenna, insert a flathead screwdriver and pry up in the direction of the arrow.

- 5** Attach the antenna connector to the EXT ANT terminal.

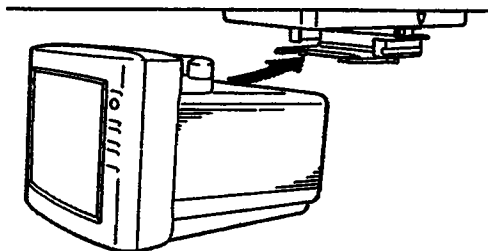
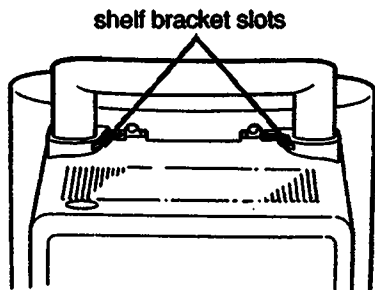




- 6** Raise the levers on both sides of the shelf installation bracket so that the tabs on the levers lock into the bracket openings located beneath the triangular indicators (A). Then pull out the metal sleeves on both sides of the bracket, as far as they will go (B).

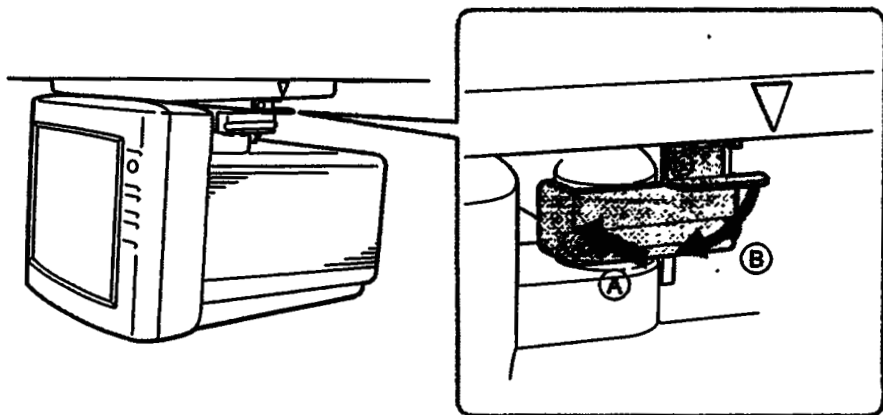


- 7** Attach the TV to the shelf installation bracket so that the two tabs on the bracket base slide into the shelf bracket slots on the TV, pushing until completely inserted.



## Preparing for Use

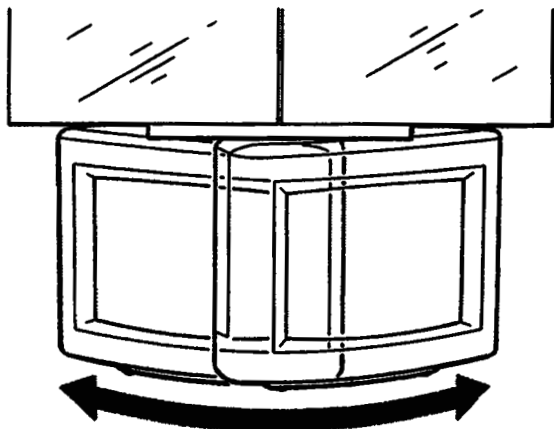
- 8** Push the metal sleeves on both sides in completely (A). Then lower the levers on both sides, to secure the sleeves (B).



### CAUTION

To support the TV properly, always lower the levers to secure the metal sleeves; otherwise the TV may fall from the bracket.

- 9** You can rotate the TV about 40° in either direction. Be sure to rotate the TV slowly and gently.



The TV will be tilted back slightly, at the same angle as when set on a flat surface, for optimum viewing angle.

### CAUTION

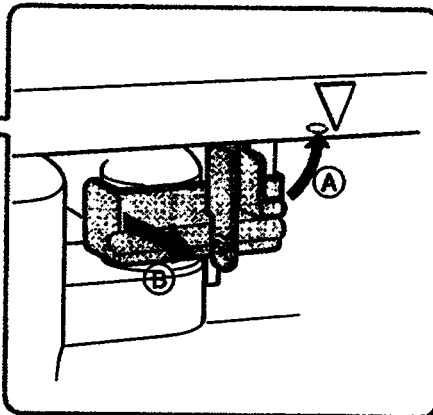
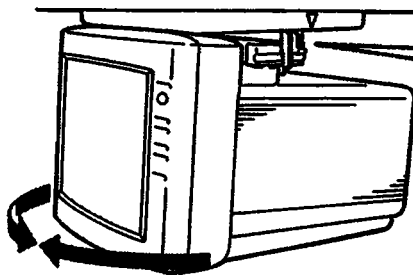
If you are unable to rotate the TV, the bracket levers are not lowered properly. Repeat step 8 to lower the levers.



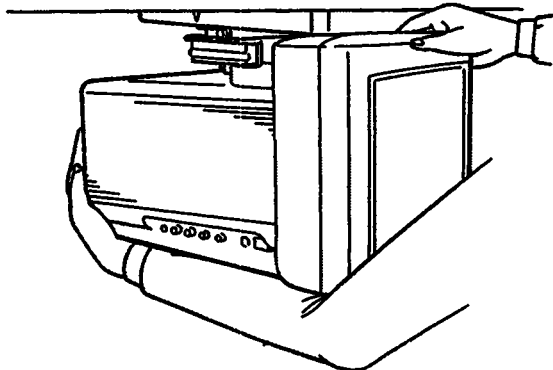


## Removing the TV from the bracket

- 1 Adjust the TV so it faces straight forward. Raise the levers on both sides so that the tabs on the levers lock into the bracket openings (A). Then pull out the metal sleeves on both sides, as far as they will go (B).



- 2 Keeping the TV supported from the bottom rear, pull the TV toward you to remove the TV from the bracket.



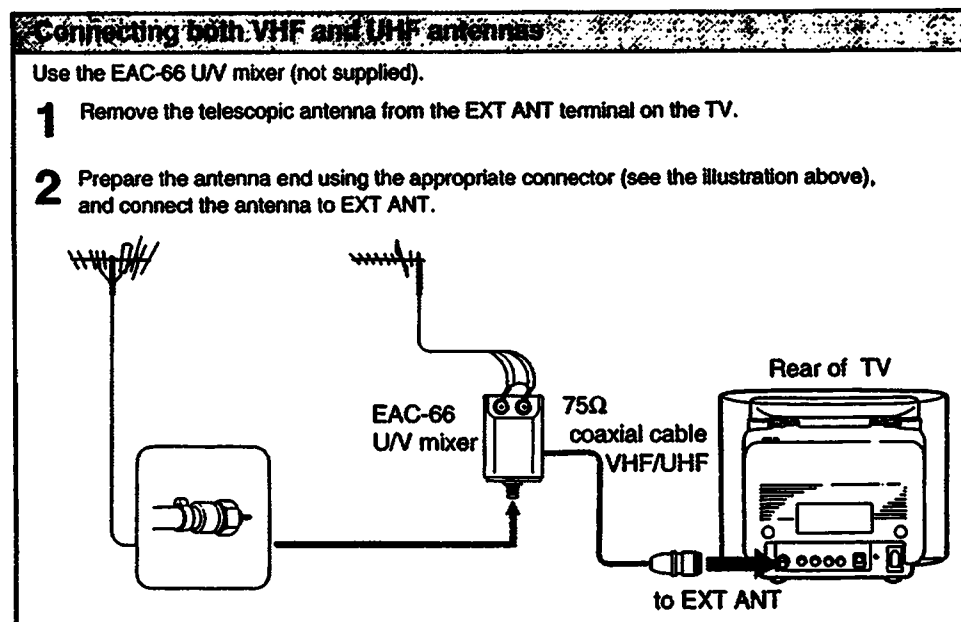
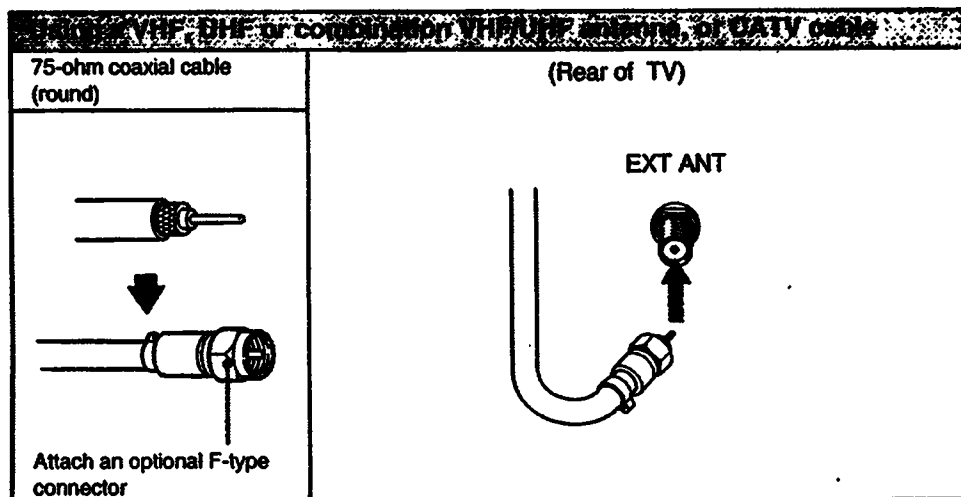
### CAUTION

If you do not support the TV as shown, the TV may fall when it separates from the bracket.

# Preparing for Use

We recommend connecting VHF/UHF antennas for better picture quality. You can receive cable TV by connecting a cable supplied by your local cable company.

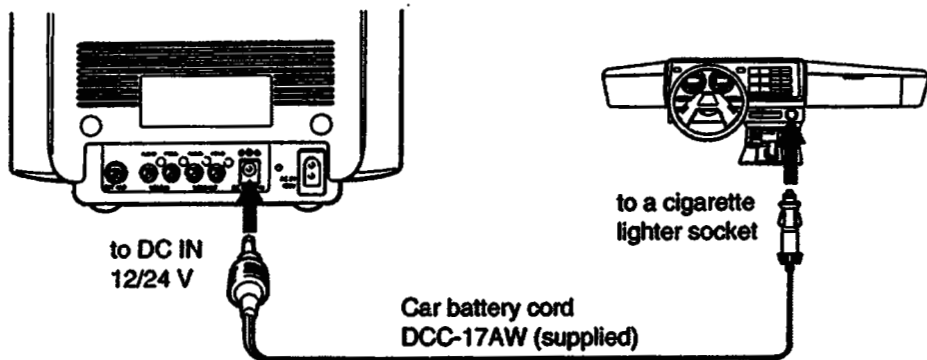
Prepare the antenna end according to your cable type.



When you use the U/V mixer

Visual and audio interference may occur in the cable TV channels over 37 (W+1).

## Using car battery



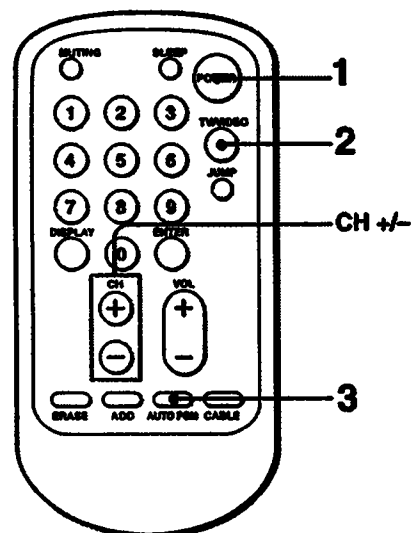
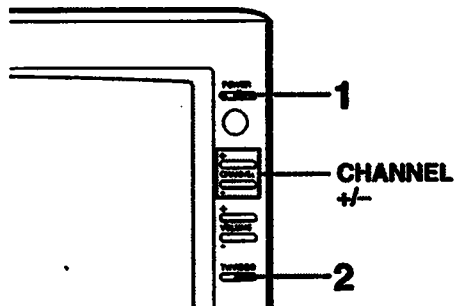
### Notes

- For car use, the TV is designed for negative ground 12/24 V DC operation only.
- Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.
- When you aren't using the TV, remove the car battery cord from the cigarette lighter socket.

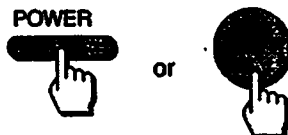


Polarity of the Sony plug

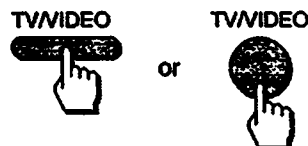
# Presetting TV Channels



- 1 Press **POWER** on the TV or the Remote Commander to turn the TV on.



- 2 Press **TV/VIDEO** on the TV or the Remote Commander so that the TV mode appears.



If "VIDEO" is displayed on the screen, press **TV/VIDEO** on the TV or the Remote Commander again so that a channel number appears.

- 3 Press **AUTO PGM.**



"**AUTO PROGRAM**" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the TV's memory.

When no more channels can be found, the programming stops and the lowest numbered channel is displayed.

**Channels that can be received on this TV:**

VHF: 2 - 13

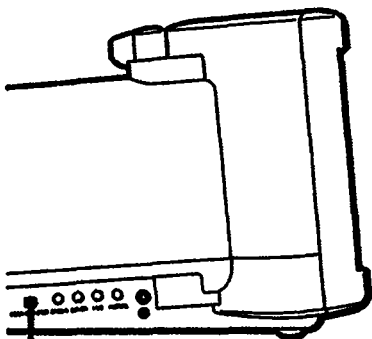
UHF: 14 - 69

Cable: 1 - 125

**To check preset channels**

Press **CH +/-** on the TV or the Remote Commander.

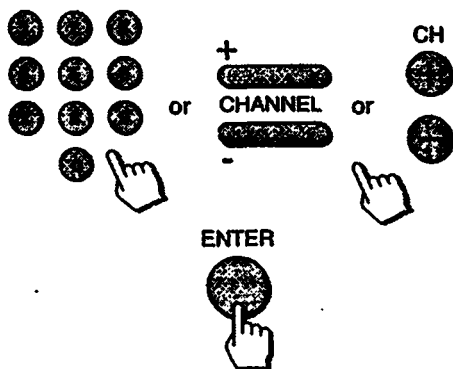
# Adding or deleting channels or erasing unnecessary channels



- 1 Set the SEEK/DIRECT selector to DIRECT.



- 2 To select a channel, press the 0-9 buttons (to add channels) or CHANNEL +/- (CH +/-) (to erase channels); then press ENTER.



- 3 Press ADD to add channels.



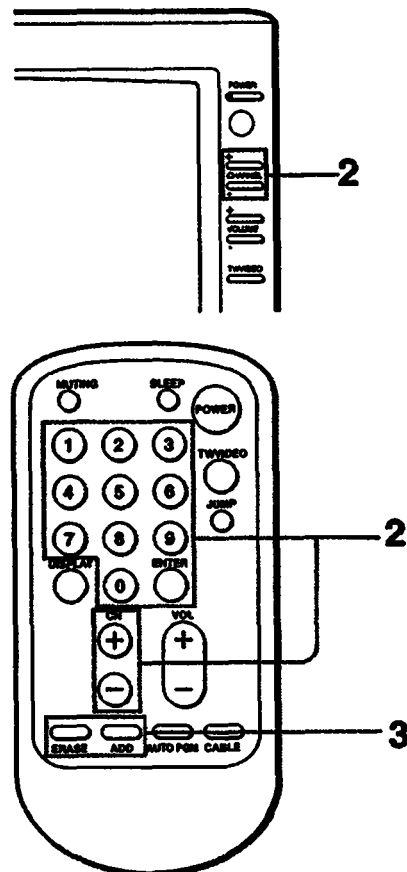
A "+" appears before the number for a moment.  
This channel has now been added to the channel scan memory.

Press ERASE to erase channels.

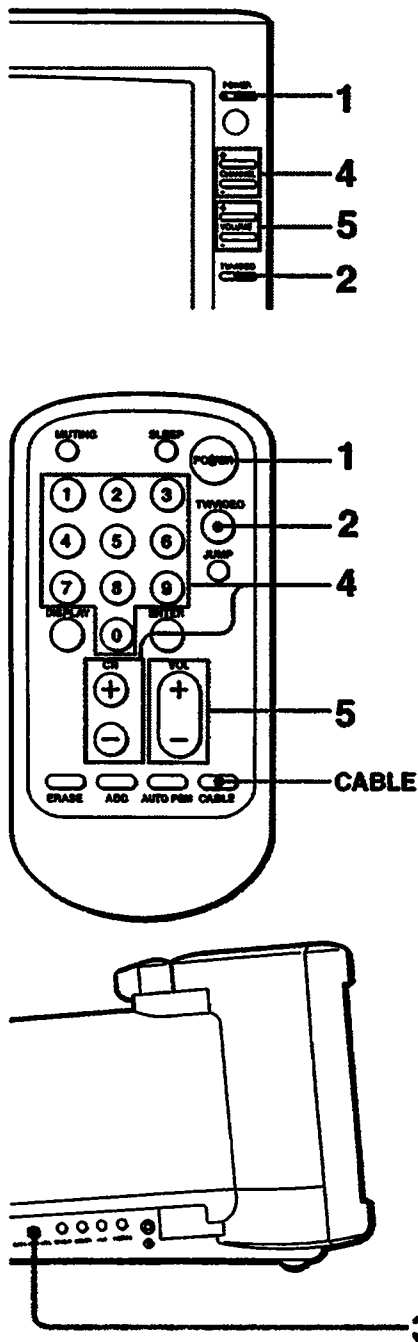


A "-" appears before the number for a moment.  
This channel has now been erased from the channel scan memory. The next time you press the CH +/- buttons, this channel will be skipped.

Repeat steps 1 and 2 to add or erase other channels.



# Watching TV Programs



- 1 Press **POWER** on the TV or the Remote Commander to turn the TV on.

**POWER**



or



## Note

The first time you use the TV, press **POWER** on the TV to turn the power on.

- 2 Press the **TV/VIDEO** button on the TV or the Remote Commander to select TV mode.  
(TV and VIDEO modes are selected in sequence.)

**TV/VIDEO**



or

**TV/VIDEO**



- 3 Set the **SEEK/DIRECT** selector to choose the method you prefer for selecting channels.



## SEEK mode

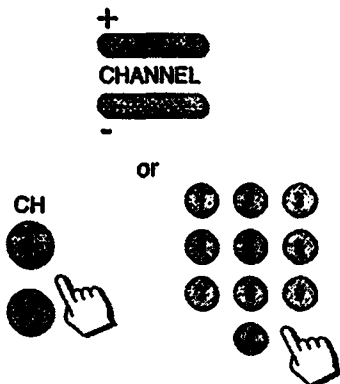
Press **CHANNEL +/-** on the TV, or **CH +/-** on the Remote Commander to select receivable channels only. (You can also select channels using the 0-9 buttons and the **ENTER** button.)

Use **SEEK** mode to improve channel reception while viewing your TV in a car.

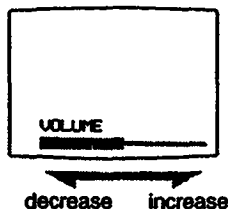
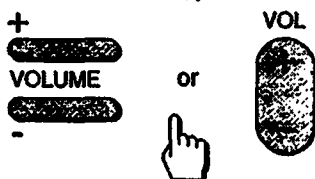
## DIRECT mode

Press the 0-9 buttons and the **ENTER** button on the Remote Commander to select a channel directly.  
(When you press **CHANNEL +/-** or **CH +/-**, non-receiving channels will also be selected.)

- 4** Press **CHANNEL +/-** on the TV, or press **CH +/-** or **0-9** buttons and the **ENTER** button on the Remote Commander to select the channel you want to watch.



- 5** Press **VOLUME +/-** on the TV or **VOL +/-** on the Remote Commander to adjust the volume.  
To increase volume, press **+**.  
To decrease volume, press **-**.



#### To watch cable TV channels

Press **CABLE** (the "C" display will appear) and select channels directly.

When you want to watch VHF/UHF channels, press **CABLE** again so that the "C" display disappears.

#### To turn the TV off.

Press **POWER** on the TV or on the Remote Commander.

#### Note

When you erase a VHF or UHF channel, the cable TV channel with the same number is also erased, and vice versa.

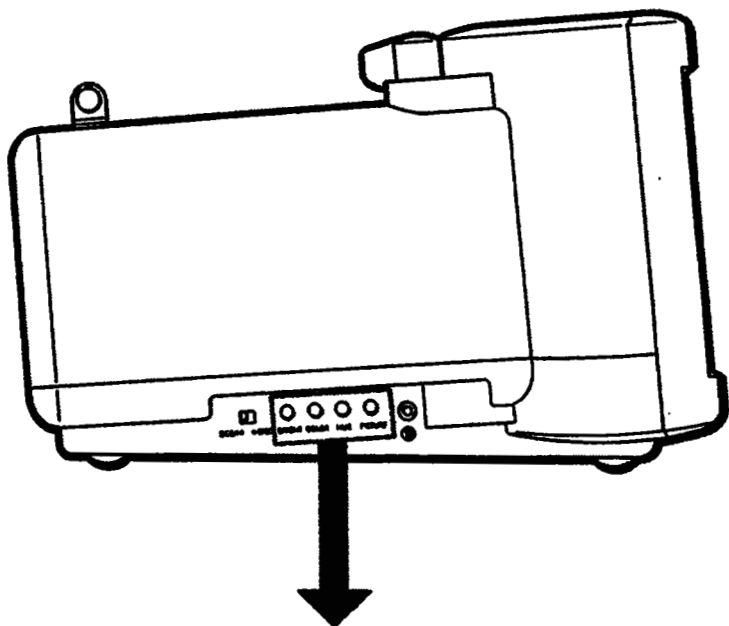
#### Cable TV channel chart\*





Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

| Number on this TV | Corresponding cable TV channel |
|-------------------|--------------------------------|
| 1                 | A-8                            |
| 5                 | A-7                            |
| 6                 | A-6                            |
| 14                | A                              |
| 15                | B                              |
| 16                | C                              |
| 17                | D                              |
| 18                | E                              |
| 19                | F                              |
| 20                | G                              |
| 21                | H                              |
| 22                | I                              |
| 23                | J                              |
| 24                | K                              |
| 25                | L                              |
| 26                | M                              |
| 27                | N                              |
| 28                | O                              |
| 29                | P                              |
| 30                | Q                              |
| 31                | R                              |
| 32                | S                              |
| 33                | T                              |
| 34                | U                              |
| 35                | V                              |
| 36                | W                              |
| 37                | W + 1                          |
| 38                | W + 2                          |
| 39                | W + 3                          |
| :                 | :                              |
| 93                | W + 57                         |
| 94                | W + 58                         |
| 95                | A-5                            |
| 96                | A-4                            |
| 97                | A-3                            |
| 98                | A-2                            |
| 99                | A-1                            |
| 100               | W + 59                         |
| 101               | W + 60                         |
| 102               | W + 61                         |
| :                 | :                              |
| 123               | W + 82                         |
| 124               | W + 83                         |
| 125               | W + 84                         |

- \* This designation of cable TV channels conforms to the EIA/NCTA recommendation. Check with your local cable TV company for more complete information on the available channels.

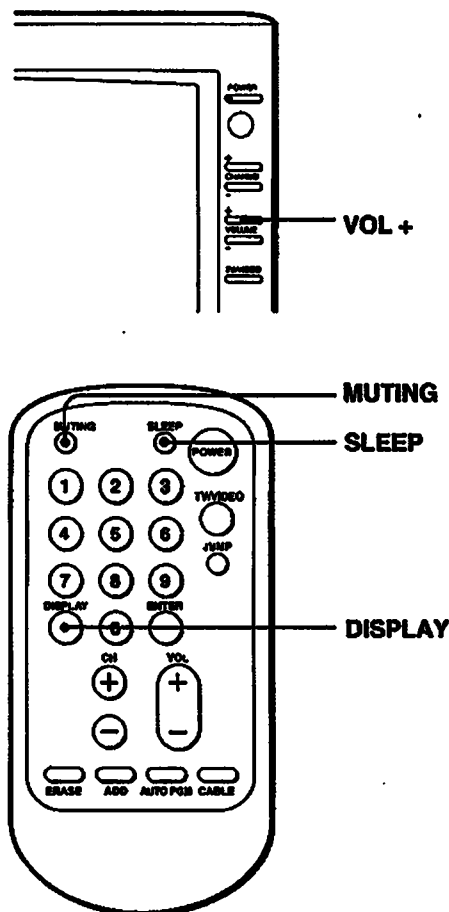
# Adjusting Picture Quality



|  |   |   |  |
|--|---|---|--|
| <p>To increase brightness</p> <p>To decrease brightness</p>  <p>BRIGHT</p> | <p>To increase color intensity</p> <p>To decrease color intensity</p>  <p>COLOR</p> | <p>Skin tones become greenish</p> <p>Skin tones become purplish</p>  <p>HUE</p> | <p>To increase picture contrast</p> <p>To decrease picture contrast</p>  <p>PICTURE</p> |
|--|---|---|--|



# Using Other Convenient Features



## Muting the sound

Press **MUTING** to mute the TV sound.

**MUTING**



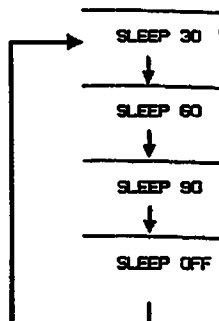
**MUTING**

To turn muting off  
Press **MUTING** again, or **VOL +**.

## Setting the sleep timer

Press **SLEEP** to set the TV to turn off in the amount of time you choose. Each time you press **SLEEP**, the time increments 30, 60 and 90 are selected in sequence.

**SLEEP**



The "SLEEP" display (red) will appear 1 minute before the TV turns off.

To turn the sleep timer off  
Press **SLEEP** once more after 90.

## Displaying the input mode

Press **DISPLAY**. The current input modes (channel, TV/VIDEO) will be displayed on the screen.

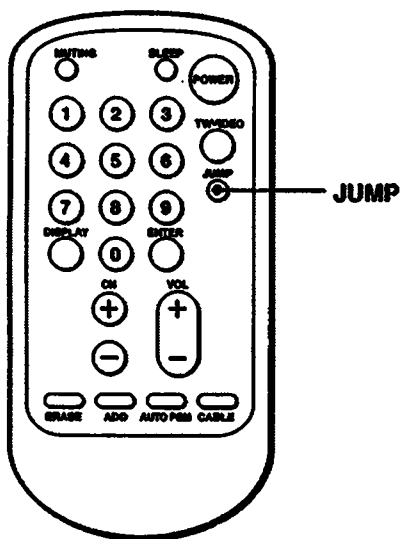
**DISPLAY**



(TV mode)

To turn the display off  
Press **DISPLAY** again.

## Using Other Convenient Features



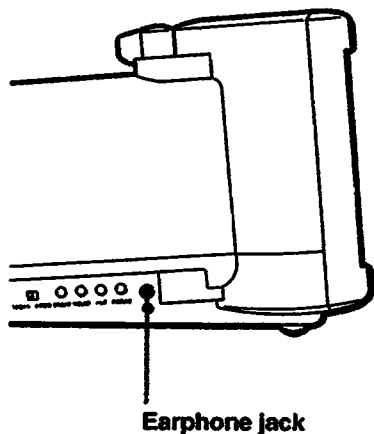
### Switching quickly between 2 channels

Press JUMP once to recall the channel you were watching previously; press JUMP again to switch back. Use this feature to keep track of two programs alternately.



### Listening through an earphone

You can listen to the TV's sound through an optional earphone connected to an earphone jack.



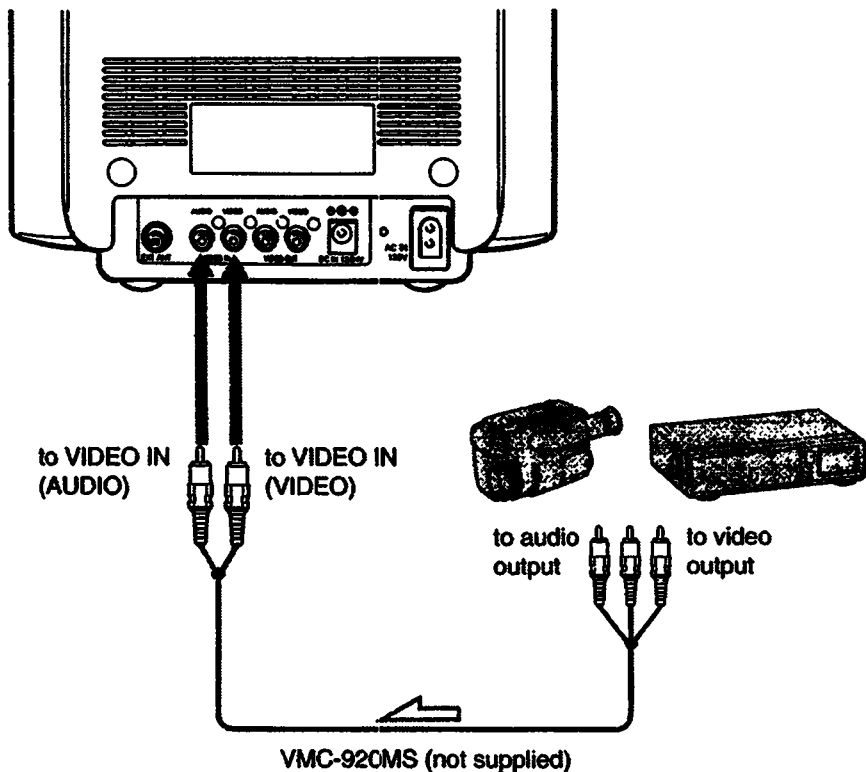
# Connecting Video Equipment

## Connecting a VCR or Other Video Equipment

Before connecting, turn off the power on all equipment.

(Rear of TV)

↗ :Signal flow



## Watching a VCR picture

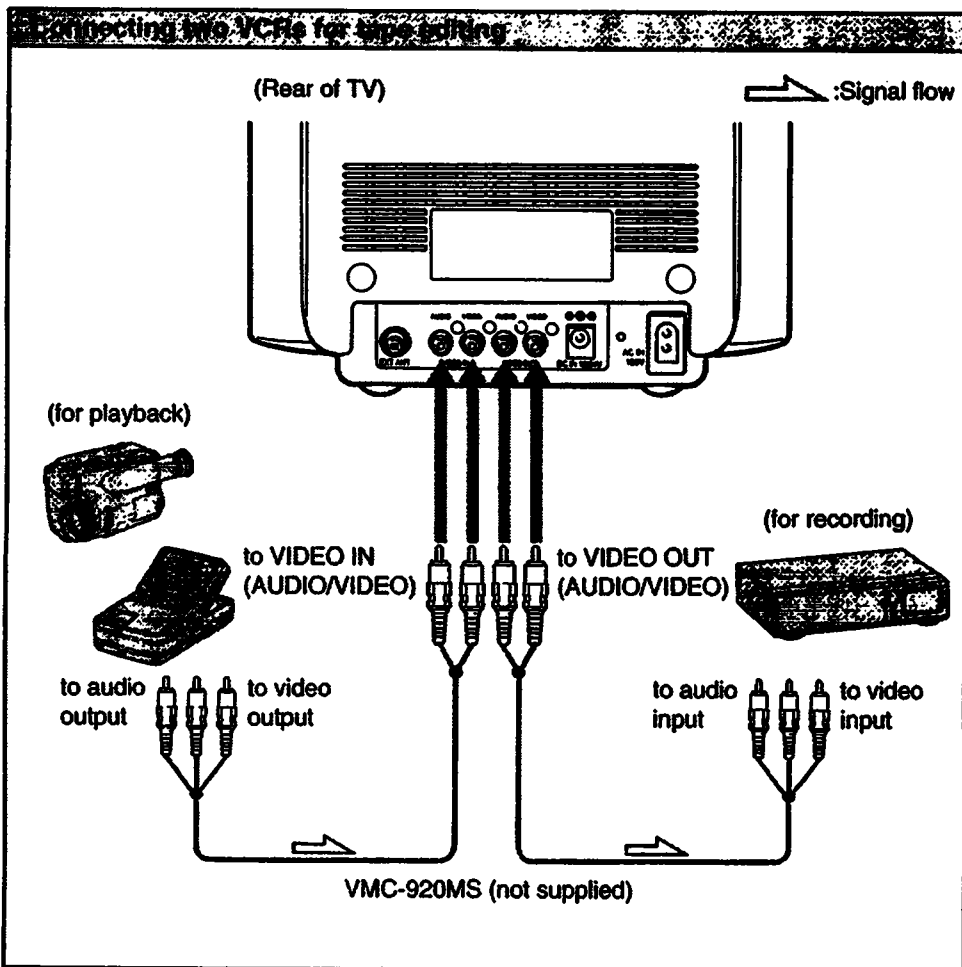
**1** Turn on the TV.

**2** Press the TV/VIDEO button on the TV or the Remote Commander so that "VIDEO" appears on the screen.

### To return to TV mode

Press the TV/VIDEO button on the TV or the Remote Commander so that a channel number appears on the screen.

# Connecting Video Equipment



## Notes

- Move the VCR away from the TV, if the display or sound is affected.
- For operating instructions, refer to the instruction manual furnished with the VCR.

# Specifications

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|                      |  |
|----------------------|--|
| Television system    | American TV standard, NTSC color   |
| Channel coverage     | VHF channels 2 – 13<br>UHF channels 14 – 69<br>CATV channels 1 – 125<br>(181 total receivable channels)  |
| Picture tube         | Trinitron tube<br>8-inch picture measured diagonally<br>9-inch picture tube measured diagonally<br>70-degree deflection  |
| Antenna              | VHF/UHF telescopic antenna   |
| Speaker              | 77mm round (3¼ inches)   |
| Inputs               | VIDEO IN jacks<br>VIDEO: RCA phono-type 1 Vp-p, 75 ohms<br>AUDIO: RCA phono-type monaural  |
| Output               | EXT ANT (Combined CATV/VHF/UHF 75-ohm, F-type)<br>Earphone jack<br>VIDEO OUT jacks<br>VIDEO: RCA phono-type<br>AUDIO: RCA phono-type monaural  |
| Power requirements   | 120 V AC, 60 Hz<br>12/24 V DC  |
| Power consumption    | AC IN: 41 W max.<br>DC IN: 32 W max.   |
| Dimensions           | Approx. 239 x 197 x 310 mm (w/h/d)<br>(9½ x 7⅞ x 12¼ inches)   |
| Weight               | Approx. 5.0 kg (11 lb)   |
| Supplied accessories | Remote commander RM-793 (1)<br>with 2 size AA (R6) batteries<br>AC power cord (1)<br>Telescopic antenna (1)<br>Car battery cord DCC-17AW (1)<br>Brackets for shelf installation (2)<br>M6 x 25 Phillips screws (4)<br>M6 x 30 Phillips screws (4)<br>Resin washers (4)<br>M6 nuts [L=5] (4)<br>Metal washers (4)<br>Spacers [L=27] (4)<br>M6 x 12 hex bolts (4)<br>Spacers [L=52] (4)<br>Φ 3 x 12 screws (1) |
| Optional accessories | Connecting cord VMC-920MS  |

Design and specifications are subject to change without notice.

# Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed below. If the problem still cannot be solved, contact your nearest service facility.

| SYMPTOM                        | CHECK AND ADJUST   |
|--------------------------------|--|
| <b>No picture, no sound</b>    | <ul style="list-style-type: none"><li>• Is POWER switched on?</li><li>• Is the power plugged in?</li><li>• Check the TV/VIDEO setting.</li></ul> |
| <b>Poor or no picture</b>      | <ul style="list-style-type: none"><li>• Adjust PICTURE or BRIGHT.</li><li>• Adjust the antenna.</li></ul>  |
| <b>No sound</b>                | <ul style="list-style-type: none"><li>• Press VOL + or VOLUME +.</li><li>• Press MUTING.</li><li>• Is an earphone connected?</li></ul>           |
| <b>No color</b>                | <ul style="list-style-type: none"><li>• Is it a color program?</li><li>• Adjust COLOR.</li></ul>   |
| <b>Snow and noise only</b>     | Adjust the antenna.  |
| <b>Dotted lines or stripes</b> | Often caused by interference from neon signs, hair dryers, etc.<br>Move the TV to another spot.  |
| <b>Double images or ghosts</b> | Adjust the antenna. An external antenna may improve the picture.   |